

Digital Champions fighting Gender Based Violence in rural Tanzania with maps



**CROWD2MAP
TANZANIA**

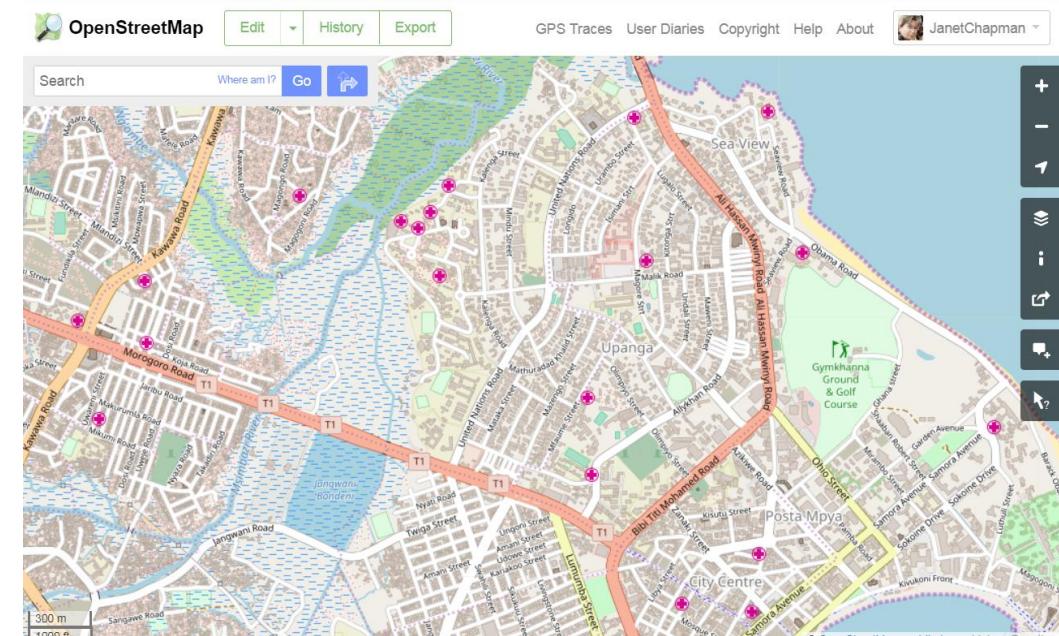
Putting rural
Tanzania on the map

crowd2map.org



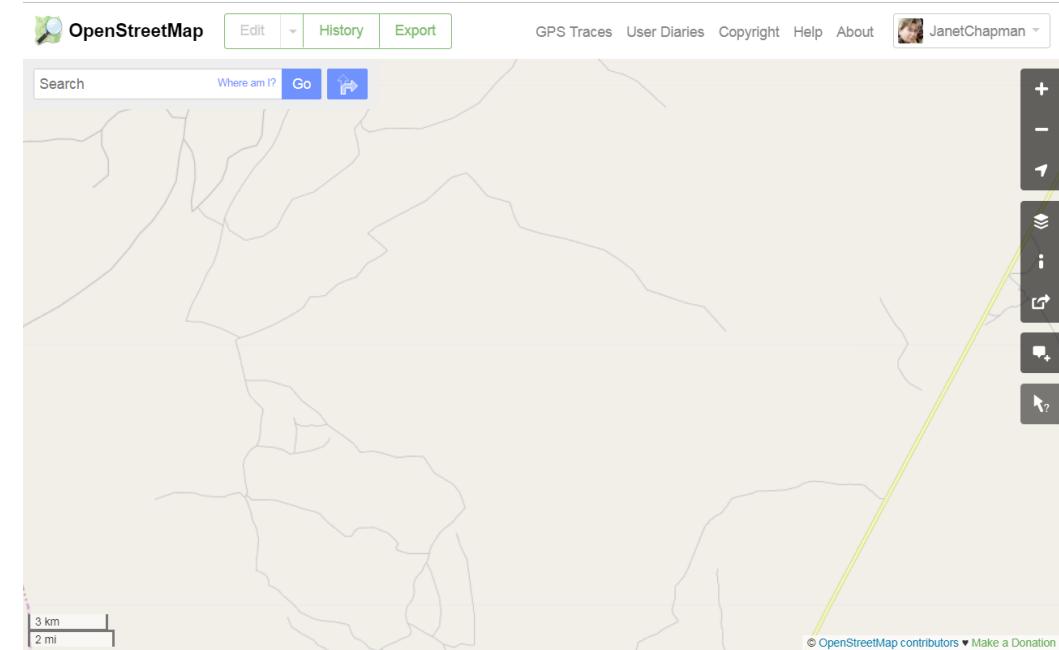
[OUR WORK](#)[ABOUT](#)[GET INVOLVED](#)[NEWS](#)[CONTACT](#)[SHOP](#)[English](#) [Simplified Chinese](#) [Traditional Chinese](#)[Donate](#)

This is Dar es Salaam:



This is rural Tanzania:

(Over 10,000 people
live in this area, not
shown on any map)





**CROWD2MAP TANZANIA IS
A VOLUNTEER PROGRAMME THAT
IS PUTTING RURAL TANZANIA ON THE MAP**

We are working towards a world where...

- Everyone is counted
- Map data is accessible and used in decisions that save and improve lives
- Everyone can engage and contribute to the map



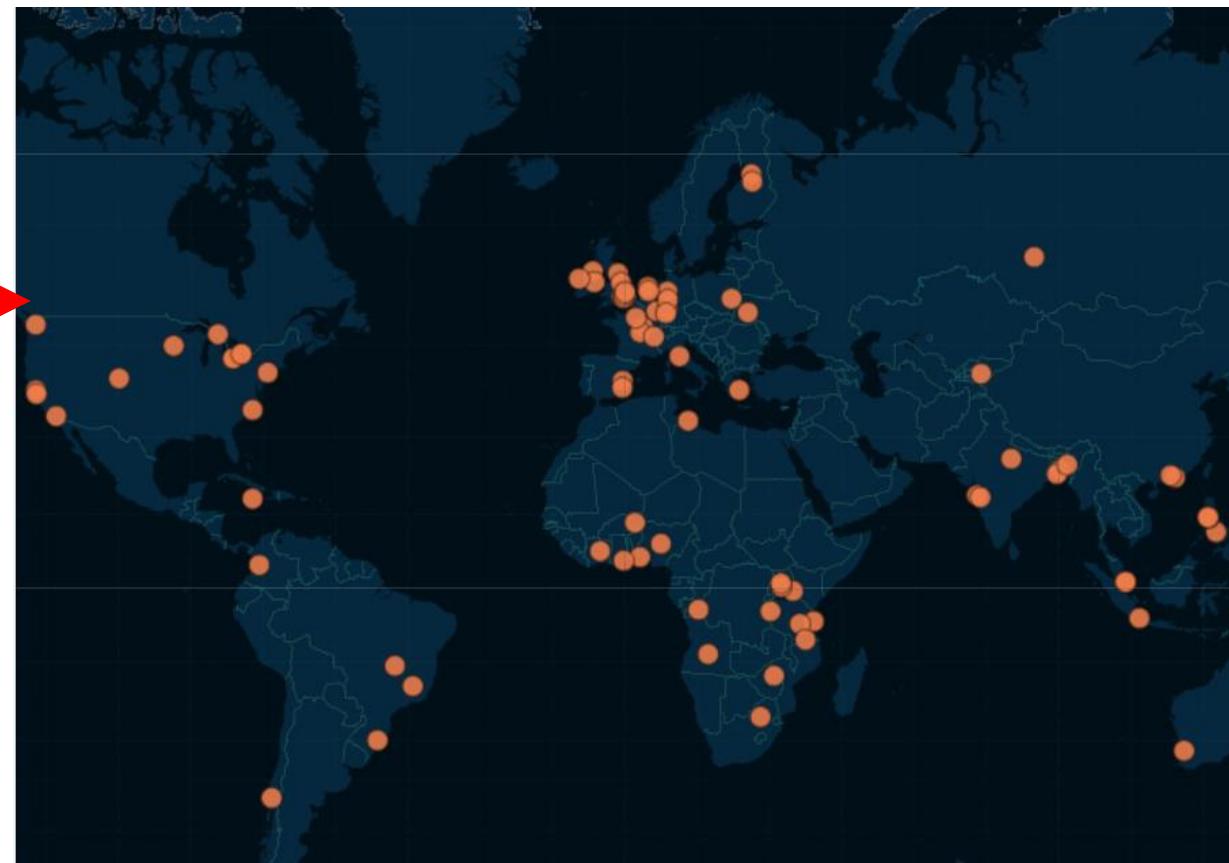
Rural Africa
needs
MAPS!



Crowd2Map are making them!

Since October 2015...

- Over 17,000 Volunteers
- Worldwide contributors
- Over 5.6 Million buildings
- Nearly 300,000 km roads
- Over 12,000 sq km mapped
- Nearly 10,000 POI
 - Water points
 - Health facilities



Humanitarian
OpenStreetMap
Team

Remote volunteers' contribution

Description: The database shows the number of contributions with the #tanzaniadevelopmenttrust hashtag. You can sort by number of contributions or you can sort users in alphabetical order and/or you can use filter to find an OSM user. The data is generated with osm-stats from American Red Cross. PS: Don't rush, it take a time...



Search for the volunteer name

Name	User ID	Edits	Changesets	Roads	Buildings	Last contribution
Super-Map	709289	141612	124	5555.24020521334	117687	2017-08-13T22:48:57.000Z
happywy17	4759876	132828	2772	7127.92758784326	69193	2021-06-29T16:16:34.000Z
sophs74	2482736	129384	2937	12984.8238972469	64727	2018-05-31T23:27:57.000Z
vichada	2246826	128226	610	2309.13532647517	97285	2018-04-05T18:47:12.000Z
sab27	4367139	123694	6957	4247.37437834032	81825	2022-06-16T12:04:33.000Z
Honning	633013	120105	1066	3926.08172315132	90156	2018-04-08T11:38:27.000Z

OSM stats

#tanzaniadevelopmenttrust leaderboard

Number of volunteers: 17706

Covered area in Tanzania: 120358 sq km

Number of HOTO SM tasks: 76

Number of MapSwipe tasks: 10

Length of added road network: 303051.76 km

Added POI (Point of interest): 10316

Added buildings: 5609709

Total edits: 7738319

Last updated: 2022-08-16T09:54:05.000Z

Number of buildings - the most active volunteers:

- Super-Map: 117687
- vichada: 97285
- Honning: 90156

Mapped road network in km - the most active volunteers:

- sophs74: 12984.8238972469
- happywy17: 7127.92758784326
- siwilde: 6324.0925230354

[Check our dashboard too - created by ArcGIS Online](#)

Mobile ownership

% of adult population in Sub-Saharan Africa

 69%

 82%

15%
Gender gap

Mobile internet use

% of adult population in Sub-Saharan Africa

 29%

 49%

41%
Gender gap

Gender gap in
ownership / use (%)



 Male owners / users (% of male population)

 Female owners / users (% of female population)

 Male owners / users (% of male population)

MOBILE OWNERSHIP

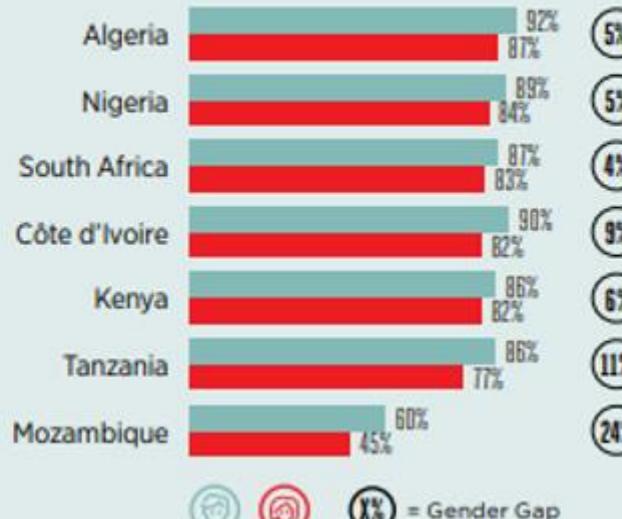
The top barriers to mobile ownership are Affordability and Literacy and Skills

Based on the single most important barrier to owning a mobile phone identified by non-mobile owners, averaged across surveyed markets



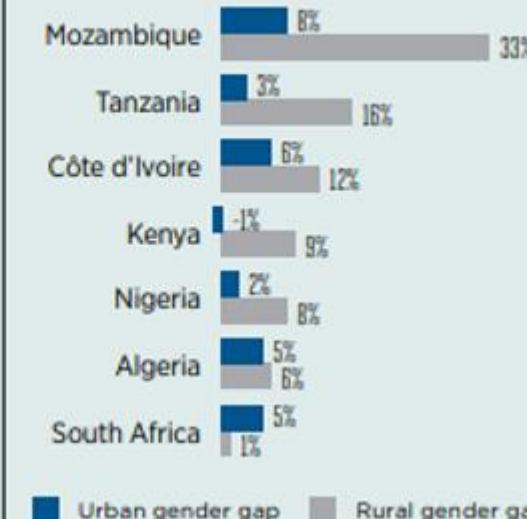
In all African countries surveyed, women's level of mobile ownership is lower than men's

Percentage of total adult population who own a mobile, by country and gender



The Gender Gap in mobile ownership is wider in rural areas than urban areas

Percentage difference in rate of mobile ownership by men and women in urban and rural areas, by country



WOMENCONNECT CHALLENGE: EMPOWERING WOMEN AND GIRLS TO CREATE GENDERED DATA ABOUT ISSUES AFFECTING THEIR LIVES

Community-Led · [Tanzania](#), [Peru](#), [Zambia](#) · COMPLETED



Hope for Girls and Women supports



HOPE FOR
GIRLS & WOMEN
Tanzania

Local Activists fighting
**Female Genital
Mutilation and Gender
Based violence**

Outreach work

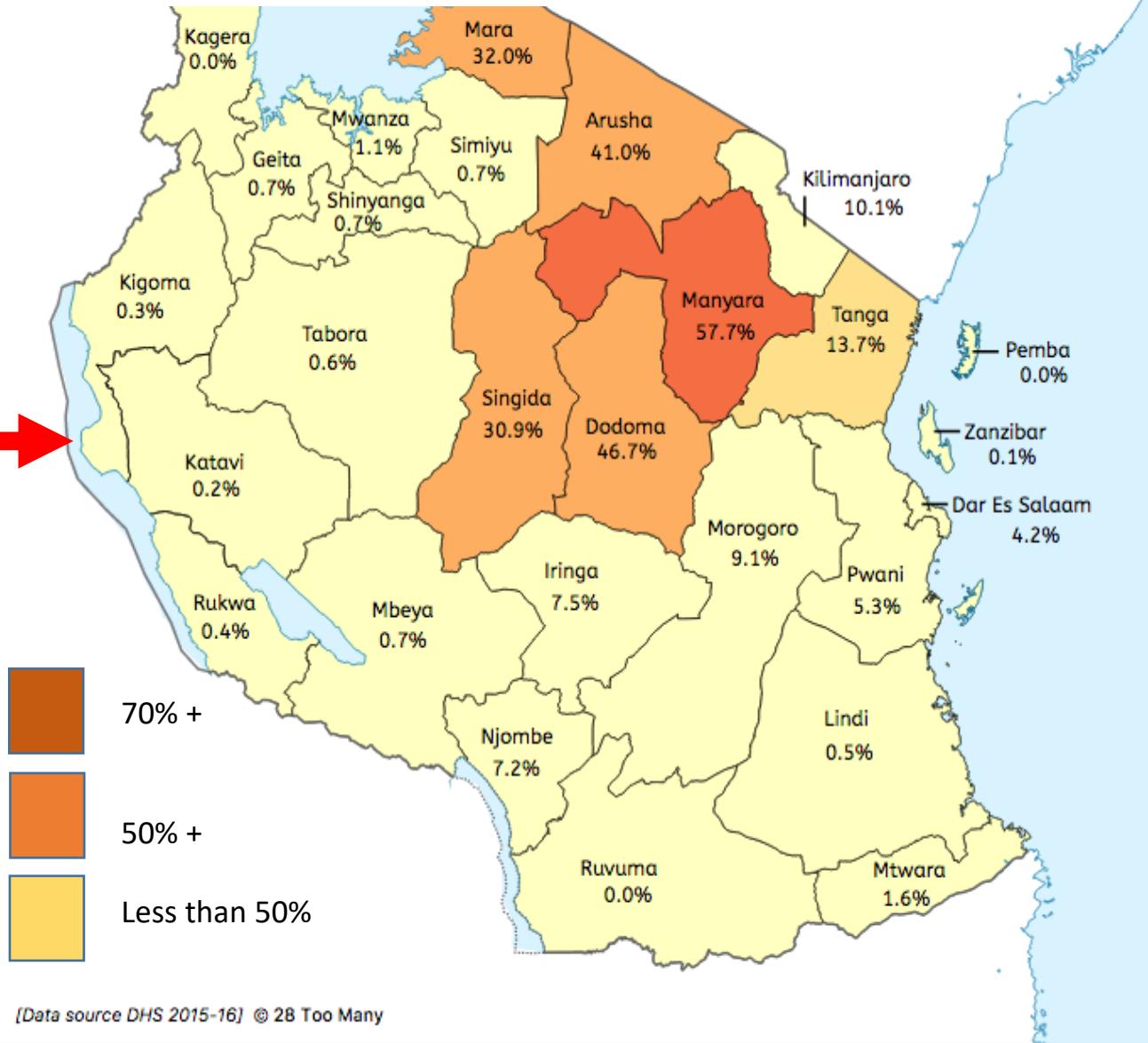
Safe Houses for girls
refusing FGM





Girls are rounded up during
the
'Cutting Season'
when they are on school
holidays

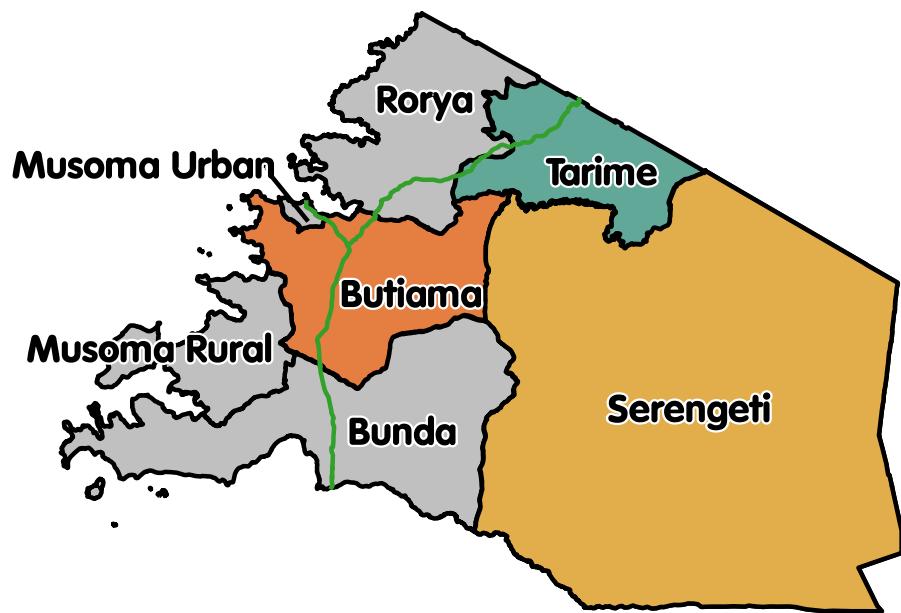
FGM Prevalence in Tanzanian Women and Girls 2016



Digital Champions

Set up **87** Digital Champions in every village in Serengeti District in 2019, who are still ongoing

Further funding from UNFPA in 2021 supported a further **56** in Butiama and **210** in Tarime Districts





[Meet Tabu here](#)



[Meet Sikujuwa here](#)



[Meet Hulda here](#)



[Meet Deborah here](#)

Digital Champions were selected from the Women and Children's Protection Committee by the village. They had never used a smartphone before.

Training included how to use the phone that they were provided with. It also included a micro sd (memory) card with downloaded videos, books and other materials about agriculture, health and womens' rights.

giffgaff 0.00K/s 75% 10:47

← WomenConnect Seren... Daniel IT, Ezekiel, Geoffrey, Herry...

17:28

Akina mama VIP? wote mlion na simu jaja mbona hamtoi tarifa zozote 18:12

26 OCTOBER 2020

Rhobi Samwelly +255 750 601 055

Akina mama VIP? wote mlion na simu jaja mbona hamtoi tarifa zozote

Yaani wakina mama mnakwama Wapi? Mbona mnaelekezwa vizuri na mnashindwa kuweka kwenye vitendo 05:15

3 NOVEMBER 2020

+255 740 006 103 I LOVE YOU JESUS

31 KB

18:36

Type a message

...

Digital Champions were joined into a WhatsApp group for ongoing training and support, as well as training in person and training visits by Safe House staff.

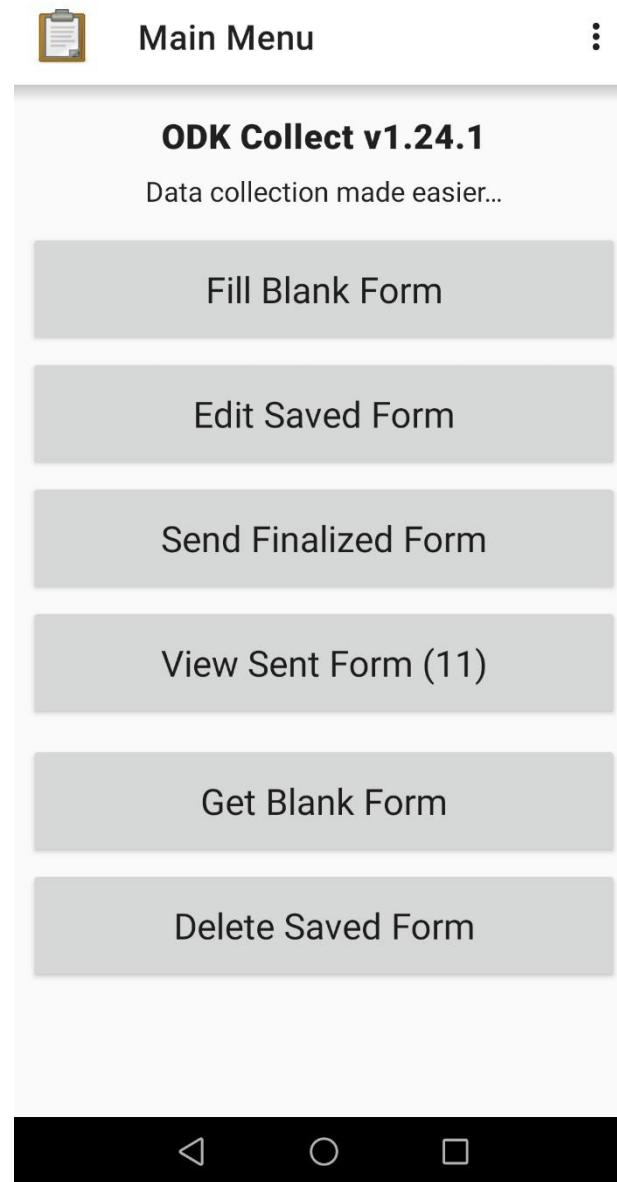


People love seeing a map of their village for the first time





84% 12:06

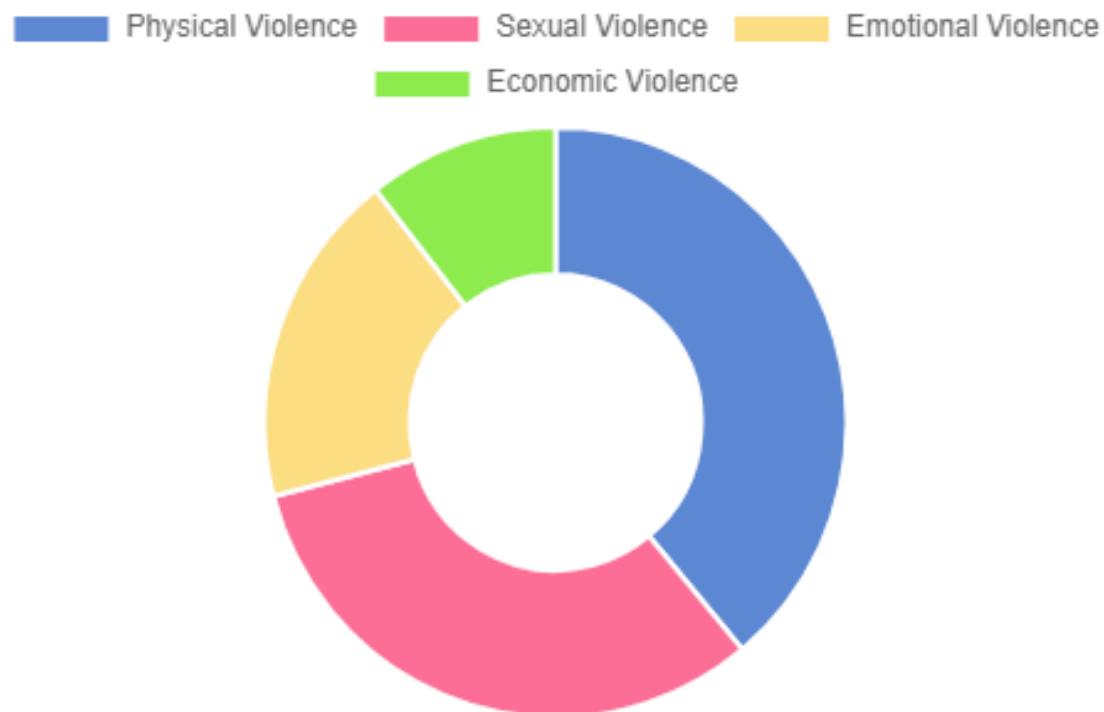


Digital Champions were trained how to report incidents of GBV using ODK, Open Data Kit.

Incidents went to Social Welfare who dealt with them.

What is the type of violence?

TYPE: "SELECT_ONE". 434 out of 439 respondents answered this question. (5 were without data.)





Village pharmacy



Village water supply

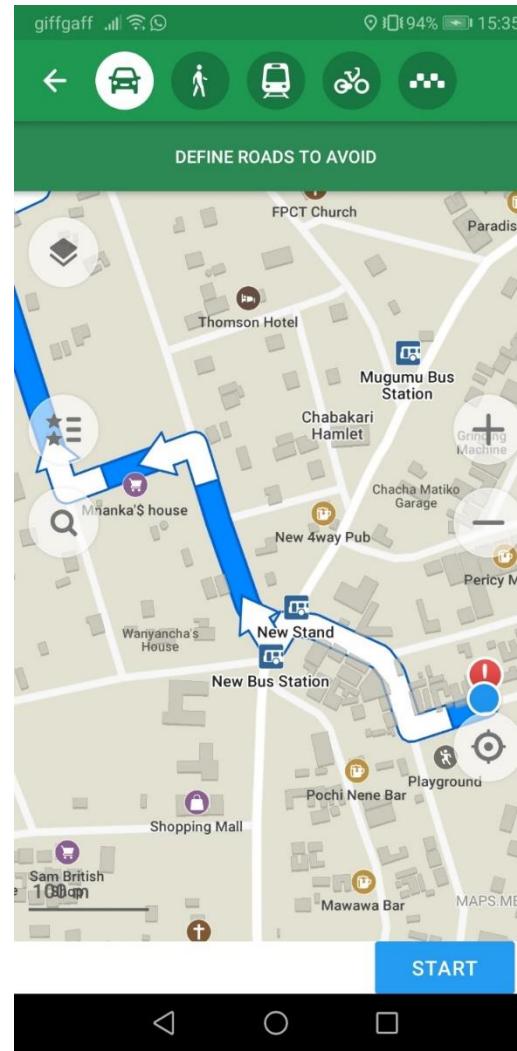
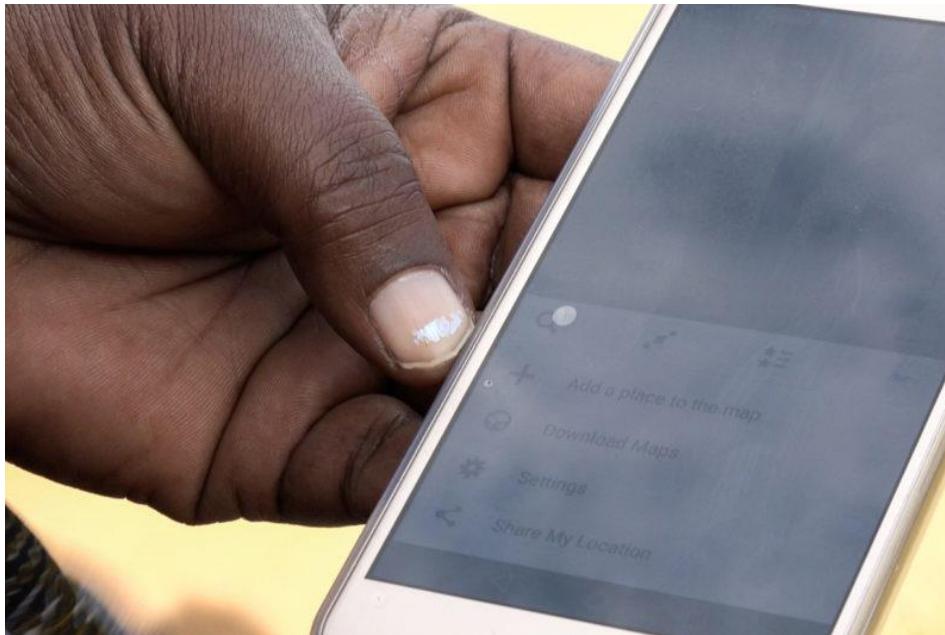
Digital Champions and Youthmappers are involved in ongoing research into progress towards the SDGs.

Village Digital champions



- Over 353 Digital champions trained who have delivered training to over 9000 women in their villages and reported over 470 cases of gender based violence
- Support from WomenConnect, UNFPA Tanzania
- Digital Champions also educate their communities on FGM and GBV – *in their village*
- Using ODK and Organic Maps
- Pharmacies, churches, clinics, police stations and safe places are also mapped.
- Also trained in better agriculture with PlantVillage Nuru

Finding women and girls at risk quickly...



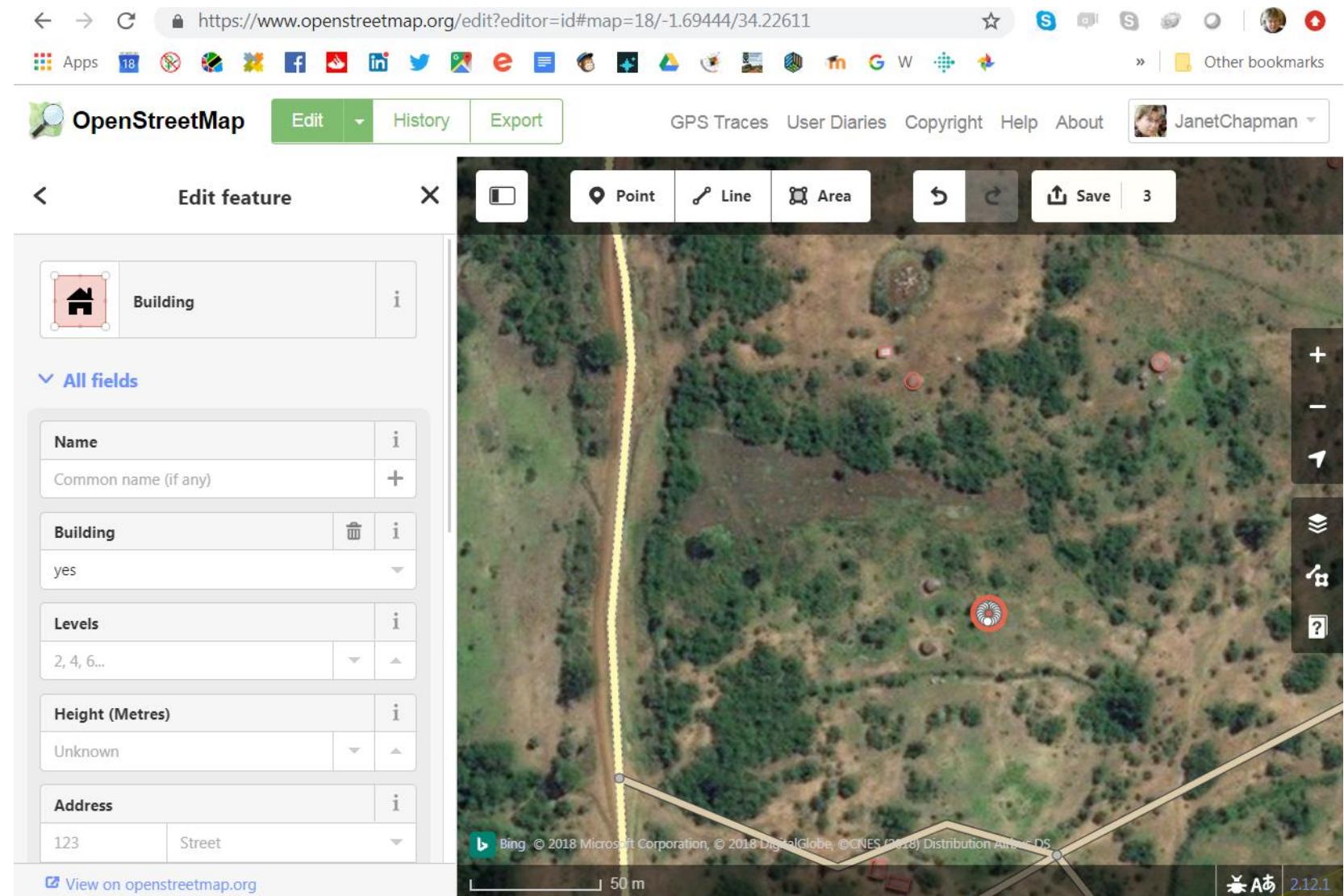
We trained the police and activists to use the maps to quickly find and protect girls at risk.

And also add missing places to the map.

Allows route finding

Remote mapping to create base map...

- Using the HOT platform
- iD Editor – Beginners
- Adding Basic features
 - Buildings, roads
 - Schools, Clinics
 - Villages





EXPLORE PROJECTS

MY CONTRIBUTIONS

MANAGE

LEARN

ABOUT



JanetChapman



#9491 | Tanzania Development Trust

Edit project

TANZANIA DEVELOPMENT TRUST: SHINYANGA EAST

Missing Maps · Tanzania

- Author: HOT
- Requesting Organization: **Tanzania Development Trust**

Mwanza East has a high incidence of Child Marriage and Gender Based Violence. NGOs on the ground need better road and residential area data to facilitate their outreach work.

The Missing Maps project aims to map the most vulnerable places in the world (affected by humanitarian crises: disease epidemics, conflict, natural disasters, poverty, environmental crises). Building on HOT's disaster preparedness projects, the Missing Maps tasks facilitate preemptive mapping of priority countries to better facilitate disaster response, medical activities and resource allocation when crises occur.

[READ MORE](#)

TYPES OF MAPPING



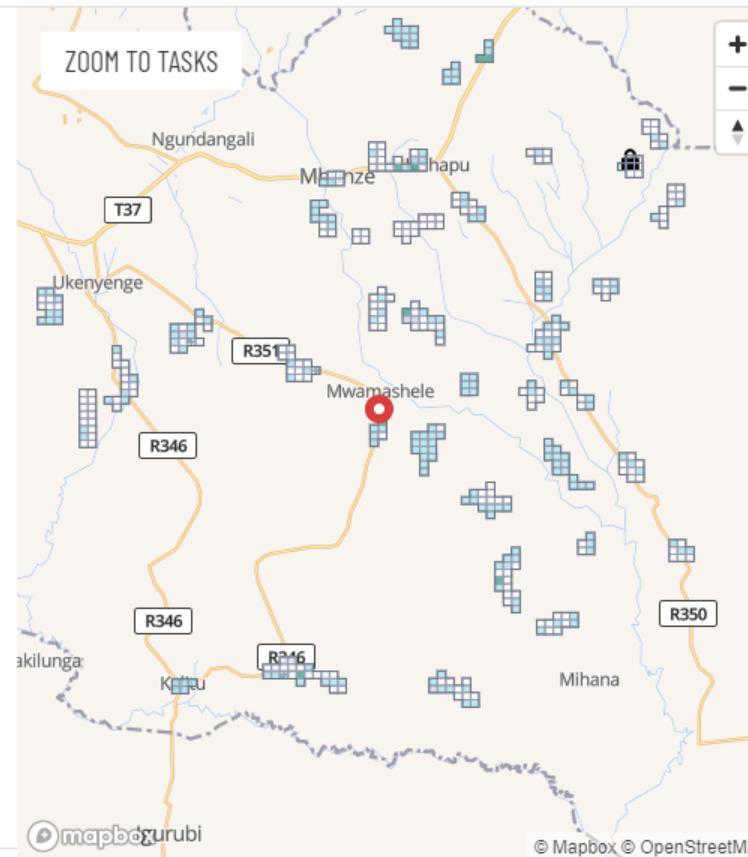
IMAGERY

Maxar Premium

51 total contributors

Last contribution 5 hours ago

Beginner Mapper

[Overview](#) · [Description](#) · [Coordination](#) · [Teams & Permissions](#) · [Questions and comments](#) · [Contributions](#)

Share



Add to Favorites

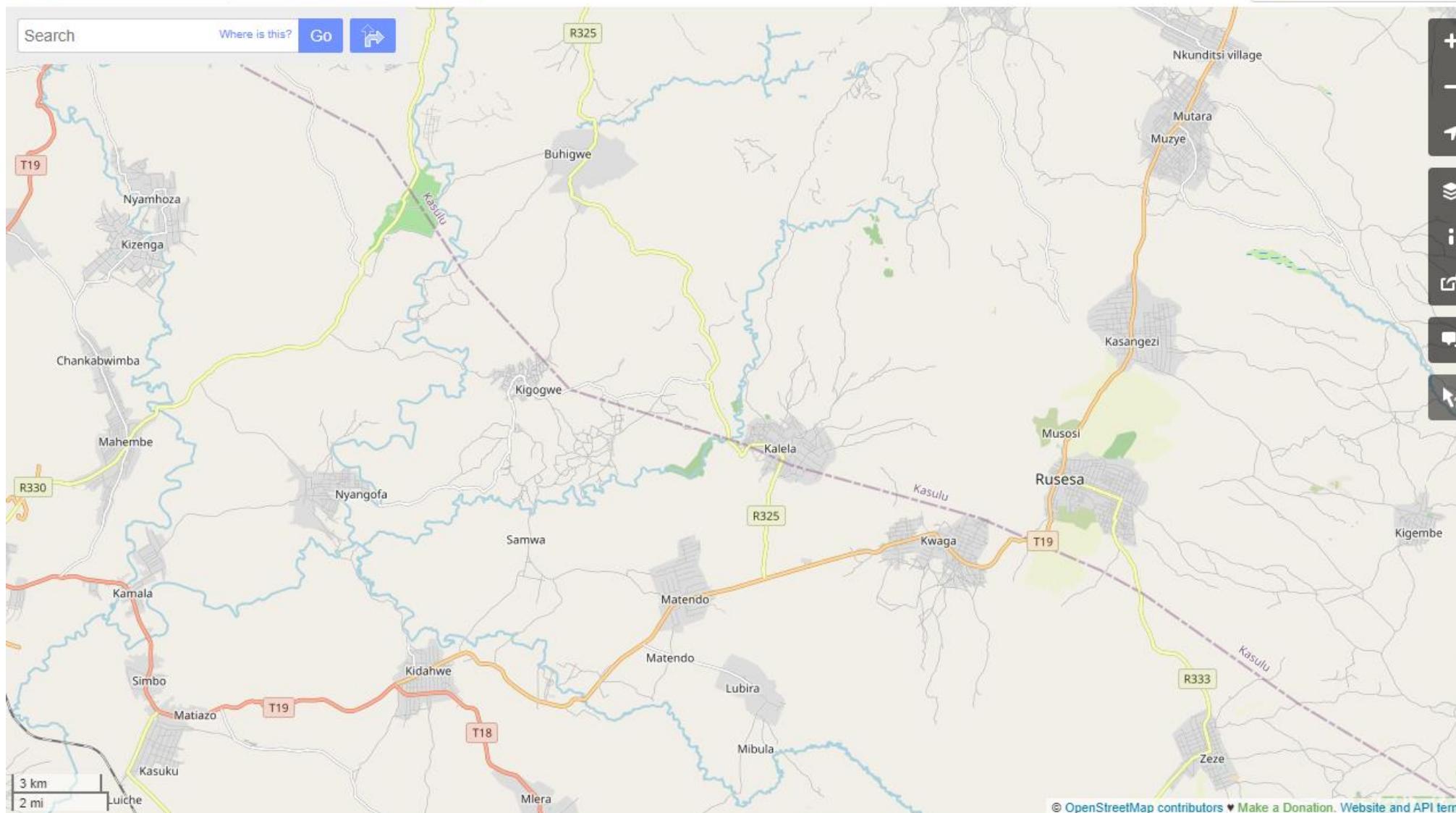
Contribute

www.tasks.hotosm.org

Humanitarian
OpenStreetMap
Team

Volunteers added clinic locations from Open Government Data

OpenStreetMap

[Edit](#) [History](#) [Export](#)[GPS Traces](#) [User Diaries](#) [Copyright](#) [Help](#) [About](#) JanetChapman [4](#)

Volunteers added clinic locations from Open Government Data

A	B	C	D	E	F	G
1	WPTNAME	LATITUDE	LONGITUDE	VILLAGE	SUBVILLAGE	Village on OSM
2	Mincha	-1.826495589	34.34512505	Maburi	Mungori	No
3	Makundya Mfungo	-1.697728916	34.28376916	Nyagasense	Kibaoni	No
4	Kebi Maro	-1.699217318	34.28673835	Nyagasense	Kibaoni	
5	Zahanati	-1.694683097	34.2863391	Nyagasense	Tahuru	
6	Mwita Mahemba	-1.672780561	34.31471909	Mesaga	Senta	
7	Nyakaho Mwita	-1.674011679	34.31417839	Mesaga	Senta	
8	Makori Nyitange	-1.674310709	34.31680839	Mesaga	Senta	

Using water point location data to add village names.

crowd2map.org/2020/08/08/missing-villages-in-tanzania/

Mapping Fund TZ Water TDT personal TDT Ag SM &Tools Zeze FGM SH Other bookmarks

[f](#) [t](#) [i](#) [in](#)

 CROWD2MAP
TANZANIA
Putting rural
Tanzania on the map
FOR 6 YEARS

DONATE OUR WORK ▾ GET INVOLVED ▾ OUR IMPACT ▾ BLOG

8TH AUGUST 2020 |

Missing villages In Tanzania

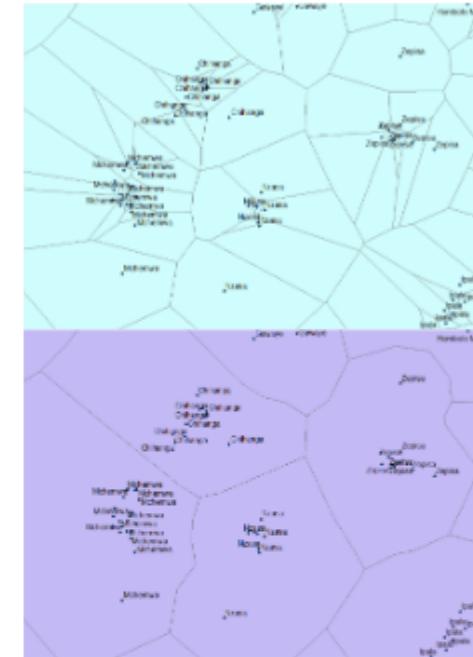
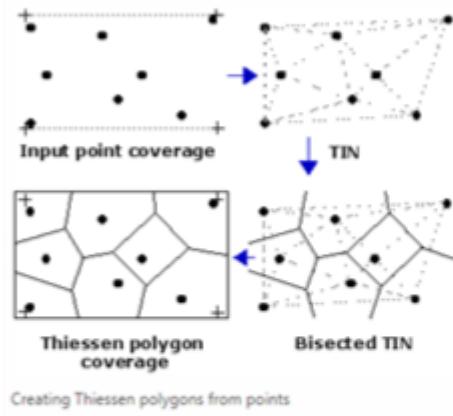
Knowing the vast, rural area of Tanzania is crucial to provide timely and effective help for girls during Female Genital Mutilation (FGM) 'cutting seasons'. In recent years, we have managed to map millions of buildings which can help us determine the distribution of the population. Although low population density areas in Tanzania are not sufficiently mapped yet, the initial steps have already been taken.

Goals of mapping

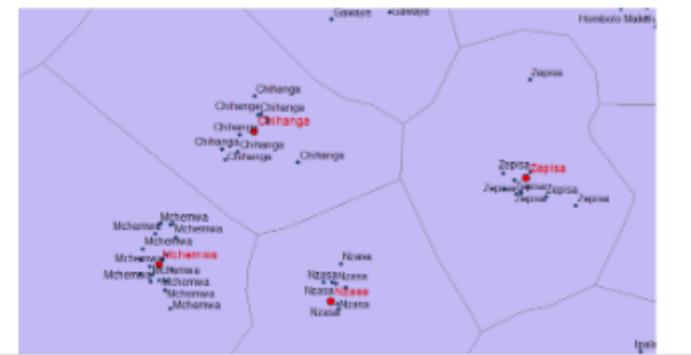
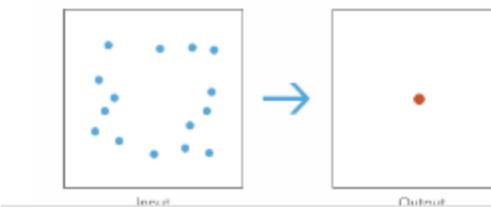
Crowd2Map Tanzania is a "crowdsourced mapping project aiming to put rural Tanzania on the map". A primary goal is to help fight against FGM. Girls are rescued and taken to safe houses by local volunteers and police. However, for this they need maps. But maps can do more than just show these rescue teams the way to remote villages. The existence of spatial information can help with development and to increase commercial

Minutes of meeti...docx Associates partici...docx Show all

1. **Voronoi diagram** (a.k.a. Thyessen polygons) was calculated of the waterpoints layer, to get the influence zone of each waterpoint. The Voronoi polygons were merged by attribute - where the village name is the same.

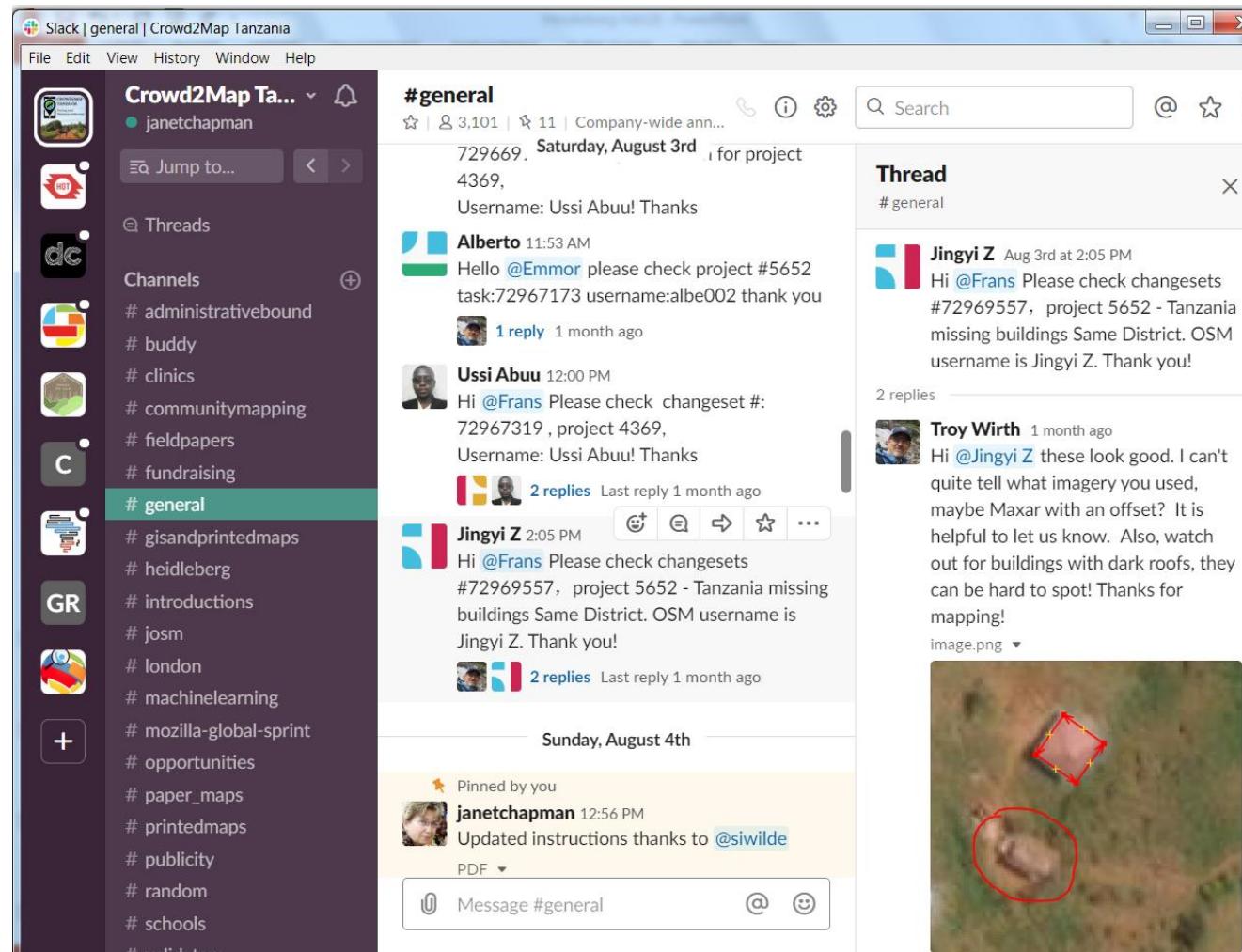


2. **Mean center** was calculated for the points inside a Voronoi polygon → potential position of the village.



Instructions [here](#)

Connecting Volunteers...



Slack channel is good for generating a community, and for volunteers to ask questions and get instant feedback on their 1st mapping attempts etc. – if anyone would like to join please let me know!



https://join.slack.com/t/crowd2map/shared_invite/zt-q04pcgqp-oilCJUFnp61Czn5vguV_lg

Training and retaining mappers...

Quizzes and Badges

- Development and expansion of training materials
 - Addressing the most common errors
 - Building skills quickly
 - Developed badges as an incentive, sign of recognition
 - Moved to make mappers independent of support, quicker





CANVAS
FREE FOR TEACHER



Account



Dashboard



Courses



Calendar



Inbox



Help



Question 4

1 pts

You are ready to mark a tile as "completely mapped", but see that another mapper had added these buildings. Which one/s need to be fixed?



Tanzania Development Trust

Crowd2Map

Target projects report card



5th Oct 2021

This weeks targets are -

MAPPING #10852 - Get to 100%

VALIDATING #3319 - Get to 50%

Project #3319

- 1 Lot to do here, some remapping and validating
- 2 Some reassessment is going on

	Last week	Today	
Mapped	91%	78%	-13%
Validated	14%	44%	30%

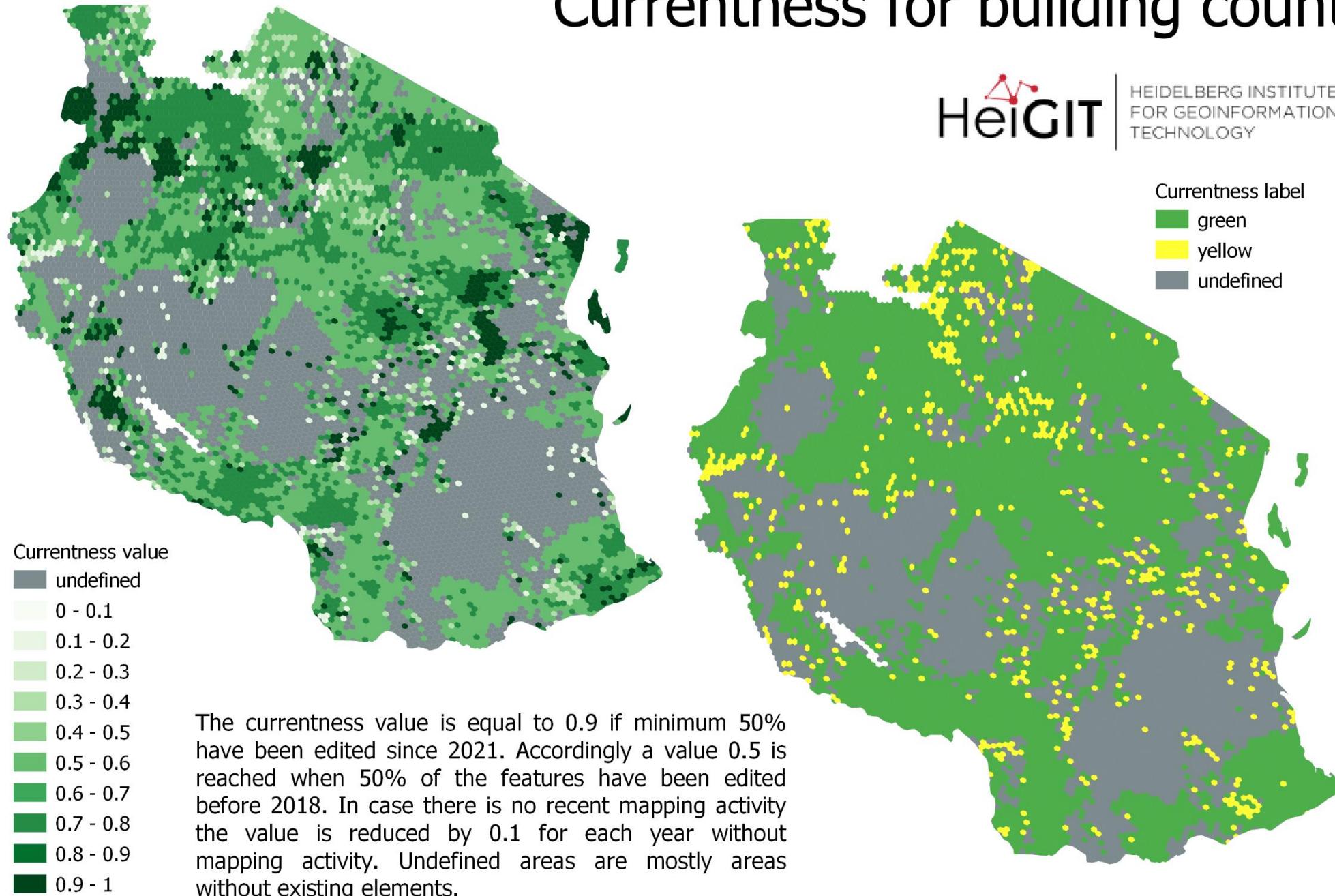


Project #10852

- 1 Great for beginners!
- 2 Don't forget to do you Buildings 101 Badges

	Last week	Today	
Mapped	49%	88%	39%
Validated	13%	28%	15%

Currentness for building count



OSM Training Tanzania

Adelina, Alpha, Anselmo, Antiditus, Bintkhamis, Erick, Ernesto, Filbert, Francis, Furaha, Geoffrey, Gerald, God

Press on Create account 09:42

Herry Tigo Mugumu

Create an account

Name Organization name

Username

E-mail

Sector Country

Gender

Male Female Other

Password

Password strength

Use a few words, avoid common phrases
No need for symbols, digits, or uppercase letters

Fill in details 09:42

Herry Tigo Mugumu

Password confirmation

Enter the same password as before, for confirmation.

Create Account

Photo by UNAMID / by-n

Done

Okay I Hi

The screenshot shows a YouTube channel page for 'Mapping Training Videos'. The channel has 29 videos and 104 views, last updated on Oct 19, 2021. It is set to 'Public'. The channel description is: 'Weekly training on OpenStreetMap and other GIS applications for Youthmappers and others in Tanzania'. A logo for 'Tanzania Development Trust' is present.

Mapping Training Videos

29 videos • 104 views • Last updated on Oct 19, 2021

Public

Weekly training on OpenStreetMap and other GIS applications for Youthmappers and others in Tanzania

Tanzania Development Trust

SORT

Introduction to JOSM
Tanzania Development Trust
35:12

Water point mapping project in OpenStreetMap in Uganda
Tanzania Development Trust
28:41

Removing duplicate edits in OpenStreetMap - training by Emmor Nile
Tanzania Development Trust
49:25

Basic iD Building Mapping with iD Web Editor Tanzania
Tanzania Development Trust
3:29

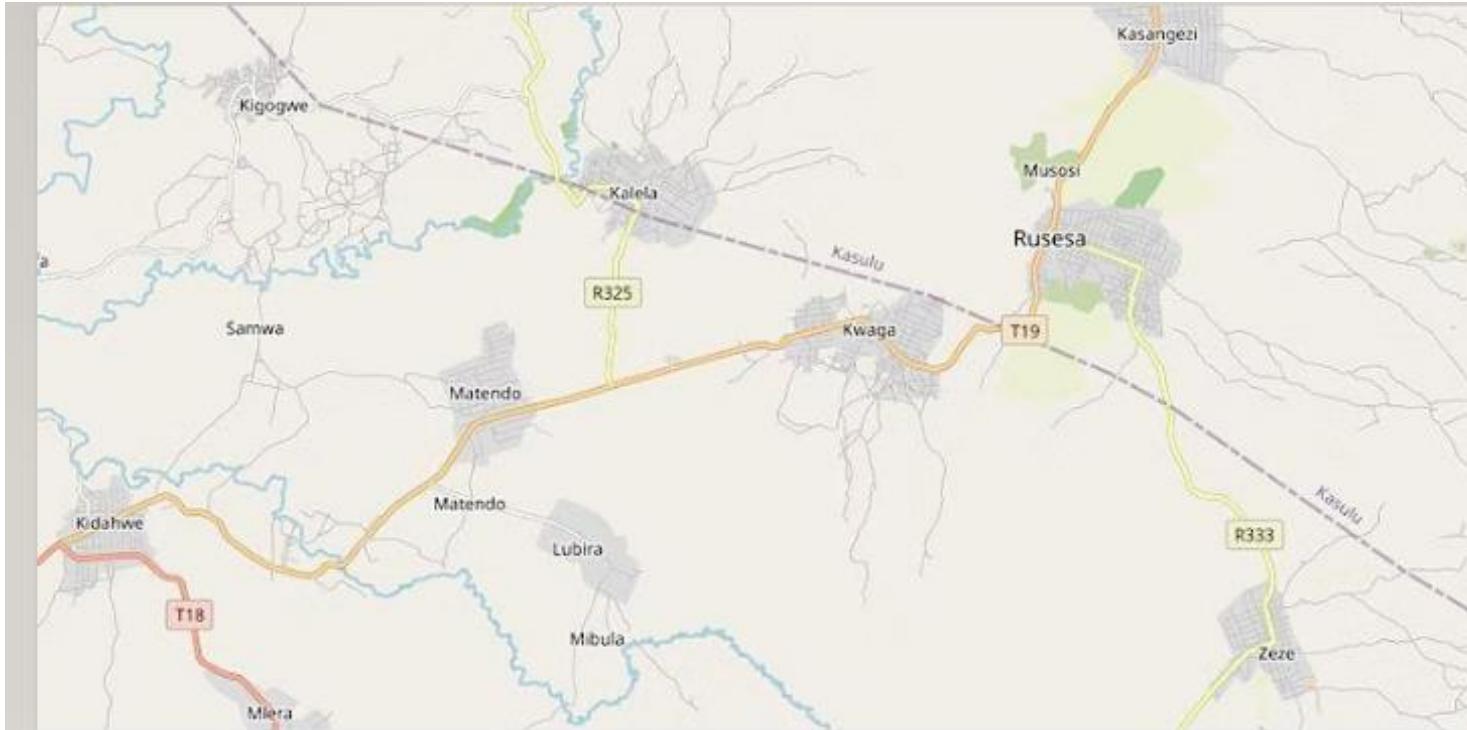
Validating OpenStreetMap data with OSMCHA and OverPass Turbo webinar by Dylan Patterson
Tanzania Development Trust
58:16

Using Fieldpapers as collaboration between remote and field mappers in Tanzania
Tanzania Development Trust
35:16



16 Youthmapper Chapters in Tanzania

Year	University or Institution of Higher Education	YouthMappers Chapter	City / Town	Country	Public Email Address
2018	Universidade de Santiago de Compostela	YouthMappers at USC	Santiago de Compostela	Spain	youthmappersusc@gmail.com
2021	Eastern University	YouthMappers at Eastern University, Sri Lanka	Vantharumoolai	Sri Lanka	mapperssrilanka@gmail.com
2021	University of Khartoum	Khartoum YouthMappers	Khartoum	Sudan	Hamad29911992@gmail.com
2017	Ardhi University	ARU Mappers	Dar es Salaam	Tanzania	bayonakennedy@gmail.com
2019	COMENIUS POLYTECHNIC INSTITUTE	CPI MAPPERS	TABORA	Tanzania	info@cpi.ac.tz
2018	Institute of Finance Management	IFM mappers	Dar es salaam	Tanzania	supermalik95@gmail.com
2017	INSTITUTE OF RURAL DEVELOPMENT PLANNING - DODOMA	MIPANGO YOUTHMAPPERSCHAPTER- DODOMA	Dodoma	Tanzania	msmapperschapter@gmail.com
2017	INSTITUTE OF RURAL DEVELOPMENT PLANNING - LAKE ZONE CENTRE, MWANZA	YOUTHMAPPERS CHAPTER AT INSTITUTE OF RURAL DEVELOPMENT PLANNING - LAKE ZONE CENTRE, MWANZA ER	Mwanza	Tanzania	irdpyouthmappers@gmail.com
2020	Muleba Lutheran Vocational Training Centre	YouthMappers at Muleba Lutheran Vocational Training Centre	Muleba	Tanzania	
2020	Murgwaza School of Nursing	MSN Youth Chapter	Ngara	Tanzania	msnyouthchapter@gmail.com
2018	Open University of Tanzania	Youth Mappers at Open University of Tanzania	Dar es salaam	Tanzania	youthmapout@gmail.com
2019	Serengeti Tourism College (SETCO)	SETCO YouthMappers	Mugumu	Tanzania	setco.youthmappers@gmail.com
2018	Sokoine University of Agriculture	SMCoSE YouthMappers	Morogoro	Tanzania	SMCoSEyouthmappers@gmail.com
2019	State University of Zanzibar	SUZA YouthMappers	Zanzibar	Tanzania	raya.ahmada@suza.ac.tz
2019	SUMAIT UNIVERSITY	Sumait University Geography Society	Zanzibar - chukwani	Tanzania	sumaitsugs@gmail.com
2019	The Nelson Mandela African Institution of Science and Technology (NM-AIST)	NM-AIST Mappers Association	Arusha	Tanzania	makawaa@nm-aist.ac.tz
2017	University of Dar es Salaam.	YouthMappers at University of Dar es Salaam	Dar es Salaam.	Tanzania	udsm.youthmappers@gmail.com
2019	University of Dodoma	YouthMappers at Dodoma University	Dodoma	Tanzania	youthmappersudom@gmail.com
2021	Institute of Accountancy Arusha	IAA YouthMappers	Arusha	Tanzania	iaayouthmappers@gmail.com



Aug 27

Tanzania Mapping Groups August Mapathon

by Crowd2Map Tanzania

208 followers

Following

Free

Register



Everywhere She Maps



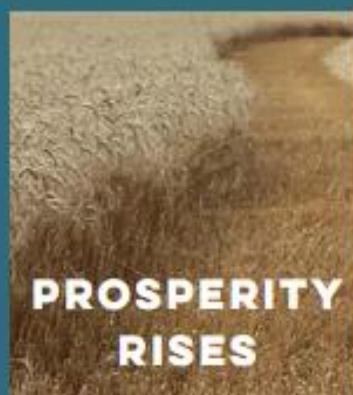
**SECURITY
IMPROVES**



**LIVES ARE
SAVED**



**POWER IS
GENERATED**



**PROSPERITY
RISES**



**INNOVATION
HAPPENS**



Congratulations Aminata, Grace, Sheila,
Asya, Zamzam, Gifthope, Bintkhamis, Lidia,
and Innocencia on your Crowd2Map
Internship through the Everywhere She Maps
Internship Match Program!



CROWD2MAP
TANZANIA
Putting rural
Tanzania on the map
crowd2map.org



REMOTE MAPPERS

VS

DIGITAL CHAMPIONS

Highly educated to degree level or beyond

Have used maps in their daily life since childhood

Own and can skilfully use a large range of technology

Many did not complete secondary school

Had never seen a map of their local area

Had never used a smartphone, or laptop or been online.



Female mappers face additional challenges:

- Men telling them they are “wasting their time” and should be at home doing their chores
- Harrassment, threats and inappropriate touching from men, particularly when travelling on public transport
- Plots to lure them to remote places to be raped



How can these challenges be overcome? IN THEIR WORDS

1. Educating people about maps and mapping and its importance to the community and nation at large.
2. Men in villages to be educated on gender equality and treating women right.
3. Security to be increased in villages; for example presence of more police stations



SO WHY DO WOMEN MAP? IN THEIR WORDS

1. We do it to help increase development in our communities.

2. To help girls escape FGM

3. To help other women in villages be able to escape gender based violences like women beating

4. To be part of change in our communities and progress to the SDGs



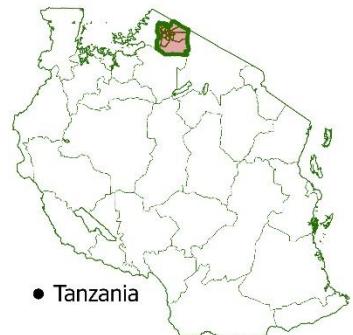
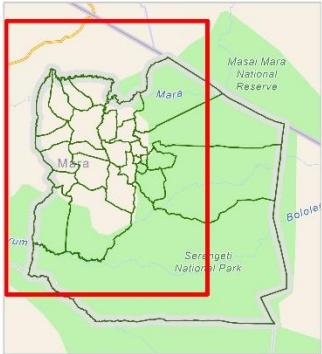
HOW CAN THE MAPPING COMMUNITY HELP?

- Recognise additional challenges faced
- Put in structures to assist ie 50% participation, women only groups, role models, being mindful of male domination in training.
- Mapping aspects that are of importance to women.
- More materials on why mapping rural areas benefits women.
- Recognising additional funding needs

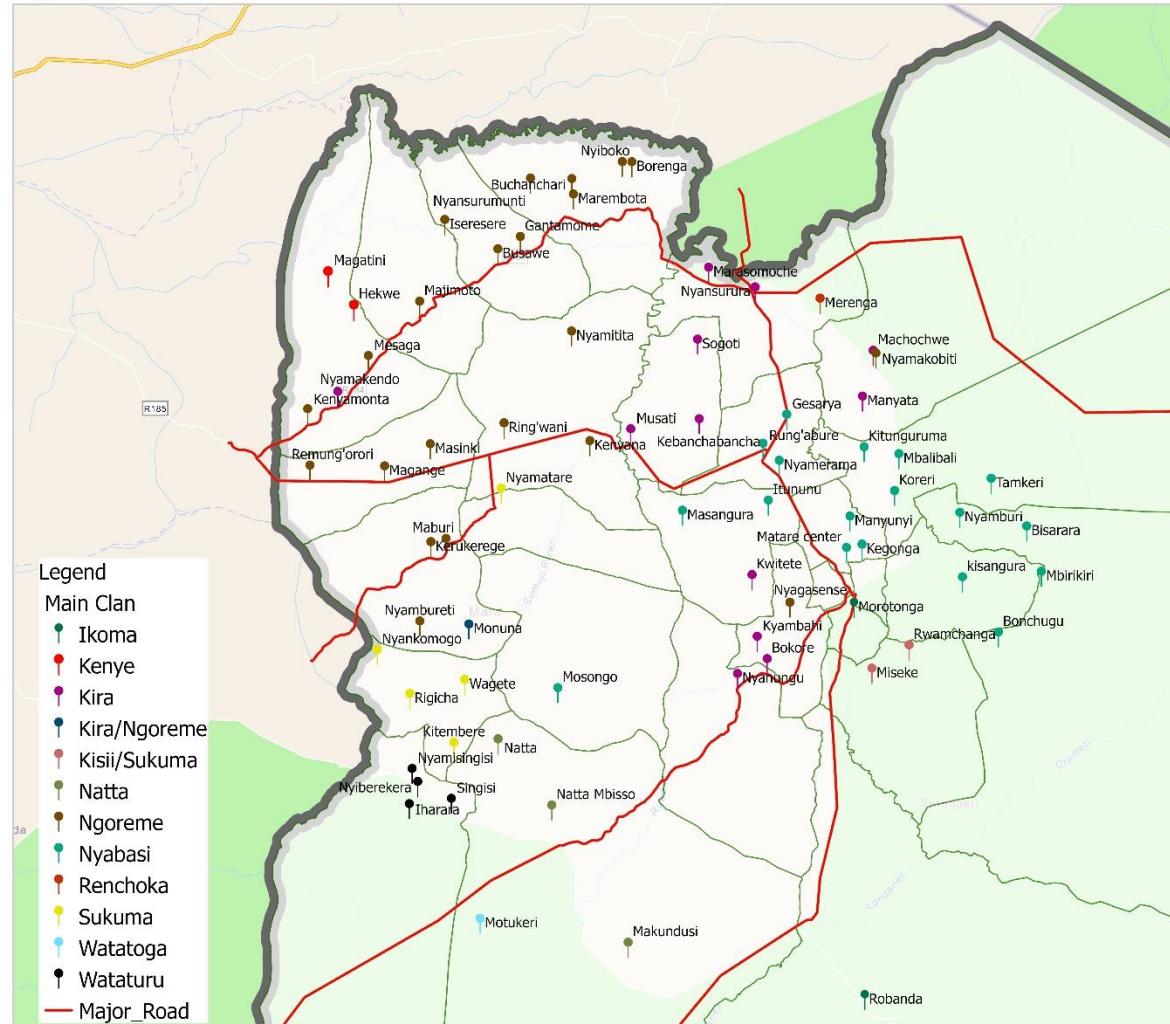


Serengeti District, Tanzania

Village Locations and Clan name



G I S + E
cartographics



Volunteer mapping project has saved 3,000 girls from FGM in Tanzania, charity says

The project helps to connect girls with nearby safe houses

Clea Skopeliti • Friday 06 November 2020 16:39 •  Comments



Lessons Learnt

- Engaging uneducated marginalised rural communities is hard but rewarding
- Training opportunities are hugely appreciated
- Women have many additional challenges
- Building relationships is key
- Long term



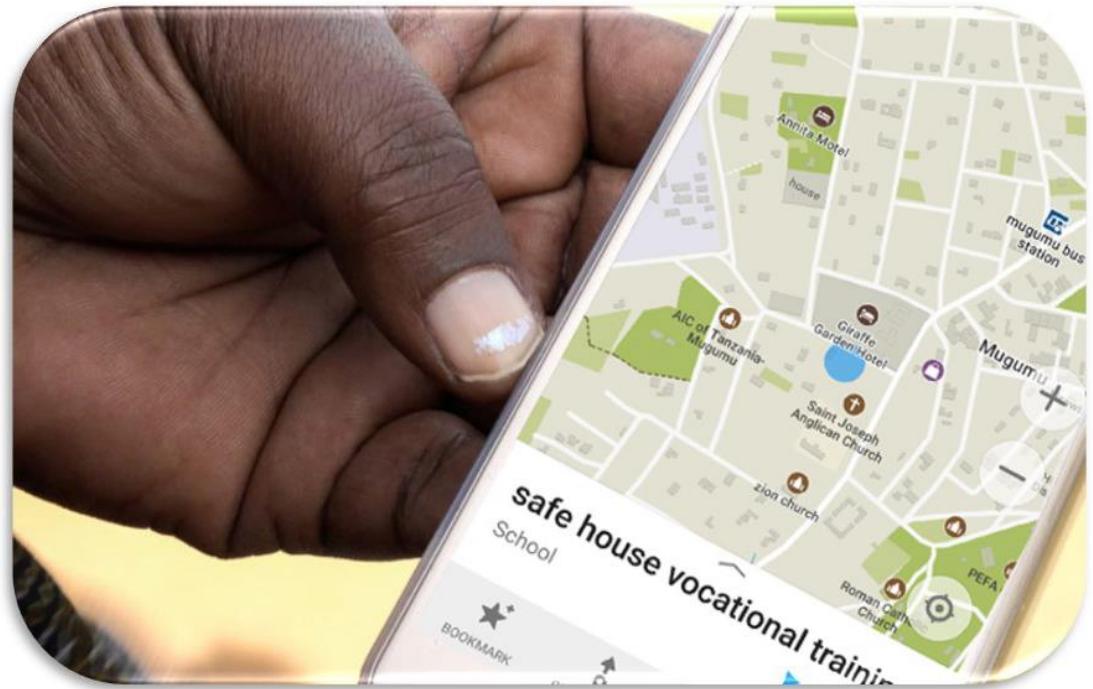
Giving rural African women the digital tools to **map**, **educate** and **protect** their sisters is an extremely cost effective, long term solution to empower women in isolated, impoverished rural communities.

Giving rural African women the digital tools to **map**, **educate** and **protect** their sisters is an extremely cost effective, long term solution to empower women in isolated, impoverished rural communities.

And make our
community more
inclusive..



Janet Chapman
Chair, Tanzania Development
Trust, Crowd2Map founder
j.chapman@tanzdevtrust.org



Join Us...

Crowd2Map.org